

Report No. : EED32O81002002











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		37)	67)





2 Version





1	Version No.	Date	10	Description	12
6	00	Jul. 25, 2022	60	Original	64
]		(A)	(A)		





Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	N/A
Maximum Conducted Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	PASS
20dB Emission Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Carrier Frequency Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Number of Hopping Channels	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Time of Occupancy	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)	PASS
Band Edge Measurements	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS
Restricted bands around fundamental frequency	47 CFR Part 15, Subpart C Section 15.205/15.209	PASS

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







4 General Information

4.1 Client Information

Applicant:	Seeed Technology Co., Ltd.
Address of Applicant:	9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province, P.R.C
Manufacturer:	Seeed Technology Co., Ltd.
Address of Manufacturer:	9F, G3 Building, TCL International E City, Zhongshanyuan Road, Nanshan District, Shenzhen, Guangdong Province, P.R.C
Factory:	Shenzhen Xinxian Technology Co., Limited
Address of Factory:	F5, Building B17, Hengfeng Industrial City, No. 739 Zhoushi Rd, Baoan District, Shenzhen, Guangdong, P.R.C.

4.2 General Description of EUT

13	Product Name:	Air Temperature and Humidity Sensor	
Ċ)	Model No.:	S2101	(5)
	Trade Mark:	seeed studio	
	Product Type:	Fixed-Use	
	Operation Frequency:	2402MHz~2480MHz	
	Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)	li G
	Modulation Type:	GFSK, π/4DQPSK, 8DPSK	
	Number of Channel:	79	
	Hopping Channel Type:	Adaptive Frequency Hopping systems	<12
	Antenna Type:	Chip Antenna	
2	Antenna Gain:	1.32 dBi	
	Power Supply:	DC 3.6V	
	Test Voltage:	DC 3.6V	
	Sample Received Date:	Jul. 07, 2022	
	Sample tested Date:	Jul. 07, 2022 to Jul. 18, 2022	





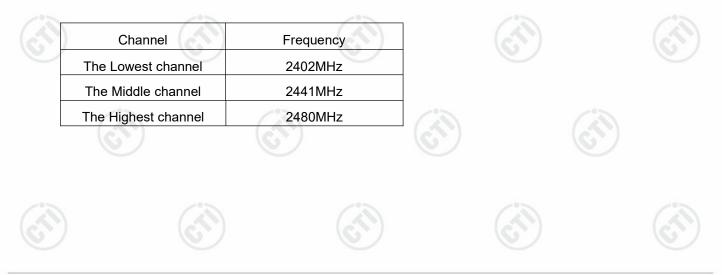


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Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

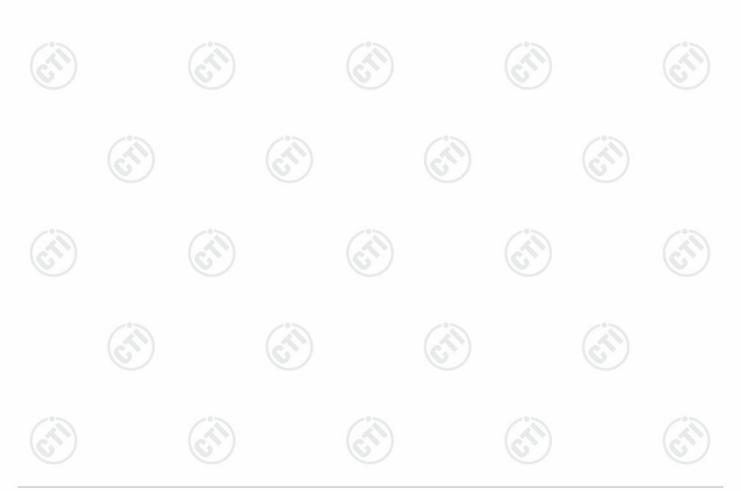






4.3 Test Configuration

EUT Test Software Settings	:		
Software:	BR BlueletSuite		
EUT Power Grade:	Class2 (Power level selected)	is built-in set paramete	ers and cannot be changed and
Use test software to set the lo transmitting of the EUT.	west frequency, the mid	dle frequency and the	highest frequency keep
Mode	Chan	nel	Frequency(MHz)
	СНО	о 🕢 с	2402
DH1/DH3/DH5	СНЗ	i9	2441
	CH7	8	2480
	CHO	<u>р</u>	2402
2DH1/2DH3/2DH5	СНЗ	9	2441
	СН7	8	2480
	СН	о	2402
3DH1/3DH3/3DH5	СНЗ	9	2441
(cs)	CH7	8	2480









4.4 **Test Environment**

	(1.5.9				
Operating Environment	t:							
Radiated Spurious Emi	ssions:							
Temperature:	Temperature: 22~25.0 °C							
Humidity:	50~55 % RH		(in)		13			
Atmospheric Pressure:	1010mbar		(\mathcal{O})		6			
Conducted Emissions:								
Temperature:	22~25.0 °C							
Humidity:	50~55 % RH	195		12				
Atmospheric Pressure:	1010mbar	(\sim)						
RF Conducted:								
Temperature:	22~25.0 °C							
Humidity:	50~55 % RH							
Atmospheric Pressure:	1010mbar							
(CT)			6		G			





























4.5 Description of Support Units

The EUT has been tested with associated equipment below. support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	DELL	Latitude 3490	FCC&CE	CTI
Neidook	DELL	Laulude 3490	FULAUE	

4.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385 No tests were sub-contracted. FCC Designation No.: CN1164

4.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty	
1	Radio Frequency	7.9 x 10 ⁻⁸	
		0.46dB (30MHz-1GHz)	
2	RF power, conducted	0.55dB (1GHz-40GHz)	
5)	(25)	3.3dB (9kHz-30MHz)	
	Dedicted Courieurs emission test	4.3dB (30MHz-1GHz)	
3	Radiated Spurious emission test	4.5dB (1GHz-18GHz)	
		3.4dB (18GHz-40GHz)	
4		3.5dB (9kHz to 150kHz)	
4 Conduction emission		3.1dB (150kHz to 30MHz)	
5	Temperature test	0.64°C	
6	Humidity test	3.8%	
7	DC power voltages	0.026%	







4.8 Equipment List

RF test system							
Equipment	Manufacturer	Mode No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
Spectrum Analyzer	Keysight	N9010A	MY54510339	12-24-2021	12-23-2022		
Signal Generator	Keysight	N5182B	MY53051549	12-24-2021	12-23-2022		
Spectrum Analyzer	R&S	FSV40	101200	08-26-2021	08-25-2022		
Signal Generator	Agilent	N5181A	MY46240094	12-24-2021	12-23-2022		
DC Power	Keysight	E3642A	MY56376072	12-24-2021	12-23-2022		
Power unit	R&S	OSP120	101374	12-24-2021	12-23-2022		
RF control unit	JS Tonscend	JS0806-2	158060006	12-24-2021	12-23-2022		
Communication test set	R&S	CMW500	120765	08-04-2021	08-03-2022		
high-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	12-24-2021	12-23-2022		
Temperature/ Humidity Indicator	biaozhi	HM10	1804186	06-16-2022	06-15-2023		
BT&WI-FI Automatic test software	JS Tonscend	JS1120-3	2.6.77.0518	(C)			

	3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
	Sivi Sellii-al		- Raulaleu uistui	Dance Test		
Equipment	Manufacturer	Model	Serial No.	Cal. Date	Due Date	
3M Chamber & Accessory Equipment	essory TDK SAC-3			05/22/2022	05/21/2025	
Receiver	R&S	ESCI7	100938-003	10/14/2021	10/13/2022	
TRILOG Broadband schwarzbeck Antenna Multi device Controller maturo		VULB 9163	9163-618	05/22/2022	05/21/2023	
		NCD/070/10711112		/		
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/15/2021	04/14/2024	
Loop Antenna Schwarzbeo		FMZB 1519B	1519B-076	04-15-2021	04-14-2024	
Microwave Preamplifier	Adjent 8//98		3008A02425	06/21/2022	06/20/2023	







3M full-anechoic Chamber							
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)		
RSE Automatic test software	JS Tonscend	JS36-RSE	10166				
Receiver	Keysight	N9038A	MY57290136	03-01-2022	02-28-2023		
Spectrum Analyzer	Keysight	N9020B	MY57111112 02-23-2022		02-22-2023		
Spectrum Analyzer	Keysight	N9030B	MY57140871	02-23-2022	02-22-2023		
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-28-2021	04-27-2024		
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-15-2021	04-14-2024		
Horn Antenna ETS-LINDGRE		3117	57407	07-04-2021	07-03-2024		
Preamplifier EMCI		EMC184055SE	980597	04-20-2022	04-19-2023		
Preamplifier EMCI		EMC001330	980563	04-01-2022	03-31-2023		
Preamplifier	JS Tonscend	980380	EMC051845SE	12-24-2021	12-23-2022		
Communication test set	R&S	CMW500	102898	12-24-2021	12-23-2022		
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	04-11-2022	04-10-2023		
Fully Anechoic Chamber	TDK	FAC-3	(<u>4</u>)	01-09-2021	01-08-2024		
Cable line	Times	SFT205-NMSM-2.50M	394812-0001				
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	(S)-	(6		
Cable line	Times	SFT205-NMSM-2.50M	393495-0001				
Cable line	Times	EMC104-NMNM-1000	SN160710		-		
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	(3	9		
Cable line	Times	SFT205-NMNM-1.50M	381964-0001				
Cable line	Times	SFT205-NMSM-7.00M	394815-0001		- /3		
Cable line	Times	HF160-KMKM-3.00M	393493-0001	6)-	(6		



CTI 华测 检测 Report No.: EED32081002002

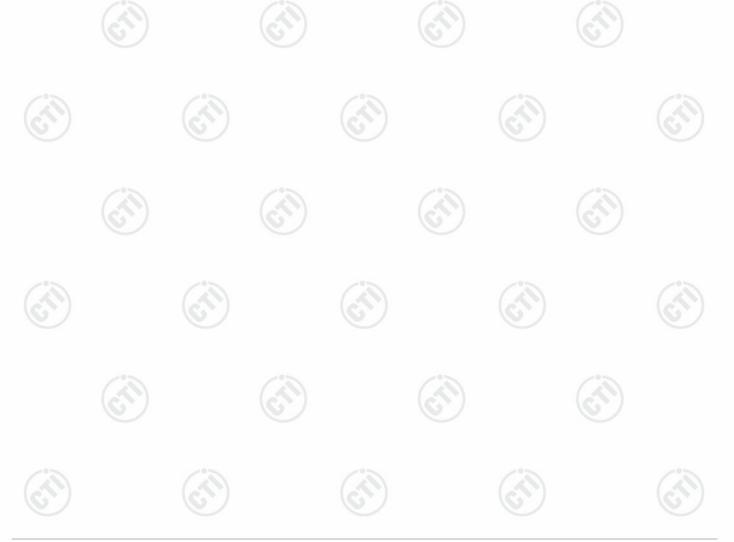


5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement:	
responsible party shall be us antenna that uses a unique	be designed to ensure that no antenna other than that furnished by the sed with the device. The use of a permanently attached antenna or of an coupling to the intentional radiator, the manufacturer may design the unit n be replaced by the user, but the use of a standard antenna jack or bited.
antennas with directional ga section, if transmitting anten power from the intentional ra	r limit specified in paragraph (b) of this section is based on the use of ins that do not exceed 6 dBi. Except as shown in paragraph (c) of this nas of directional gain greater than 6 dBi are used, the conducted output adiator shall be reduced below the stated values in paragraphs (b)(1), ion, as appropriate, by the amount in dB that the directional gain of the
EUT Antenna:	Please see Internal photos

The antenna is Chip Antenna. The best case gain of the antenna is 1.32 dBi.









5.2 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Control Computer Computer Computer Power Supply Table RF test System Instrument
Test Procedure:	Remark: Offset=Cable loss+ attenuation factor. Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
Limit:	21dBm
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Refer to Appendix A
C)	



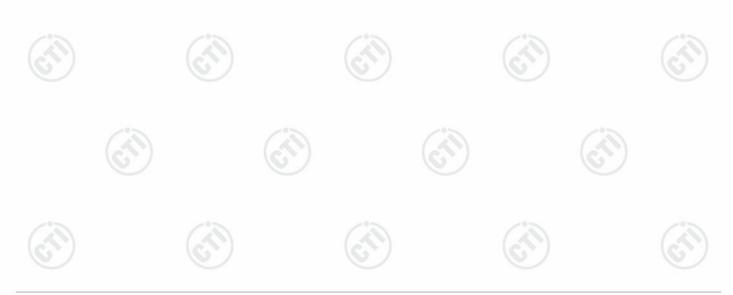






5.3 20dB Emission Bandwidth

	Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
	Test Method:	ANSI C63.10:2013
	Test Setup:	Control Computer Computer Power Supply TeMPERATURE CABNET Table
	Test Procedure:	 Remark: Offset=Cable loss+ attenuation factor. 1. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel; 1%≤RBW ≤5% of the 20 dB bandwidth; VBW≥3RBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
	Limit:	NA
23	Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
2	Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
	Test Results:	Refer to Appendix A
	1.000	









5.4 Carrier Frequency Separation

••••	ourner requerey	
	Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
	Test Method:	ANSI C63.10:2013
	Test Setup:	Control Control Computer Power Supply TemPERATURE CABINET Table
		Remark: Offset=Cable loss+ attenuation factor.
	Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
	Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.
	Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type
	Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
ć	Test Results:	Refer to Appendix A

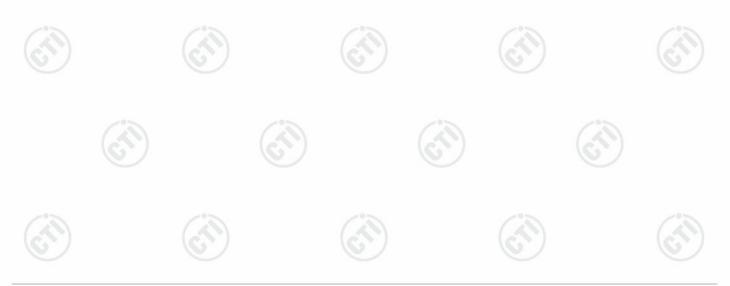






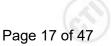
5.5 Number of Hopping Channel

		(25)	(25)				
Test Requiren	nent: 47 CFR Part 150	C Section 15.247 (a)(1)	V				
Test Method:	ANSI C63.10:201	13					
Test Setup:	Control Computer Power Suppy TEMPERATURE Table	Artenny porte) E CABNET	n				
Test Procedu		Cable loss+ attenuation factor. t of EUT was connected to the s	spectrum analyzer by RF				
C)	each measureme 2. Set to the m continuously.	cable and attenuator. The path loss was compensated to the results for each measurement.2. Set to the maximum power setting and enable the EUT transm					
	4. Use the follow band of operation or the 20 dB ban	IT hopping function. wing spectrum analyzer settings n; set the RBW to less than 30% ndwidth, whichever is smaller; VI n = peak; Trace = max hold.	% of the channel spacing				
3	total channel.	of hopping frequency used is d easurement data in report.	efined as the number of				
Limit:	Frequency hopp least 15 channels	ing systems in the 2400-2483.5 s.	5 MHz band shall use at				
Test Mode:	Hopping transmit	tting with all kind of modulation	~				
Test Results:	Refer to Appendi	x A					
		<u> </u>	O				



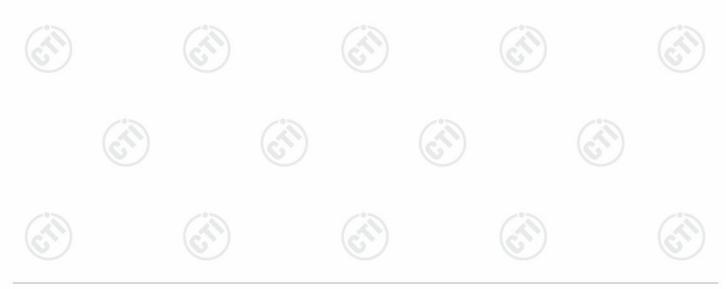






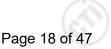
5.6 Time of Occupancy

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	C arteur C arteur Power Power Toble Table RF test System Instrument
	Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	 The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report.
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.
Test Results:	Refer to Appendix A
67	

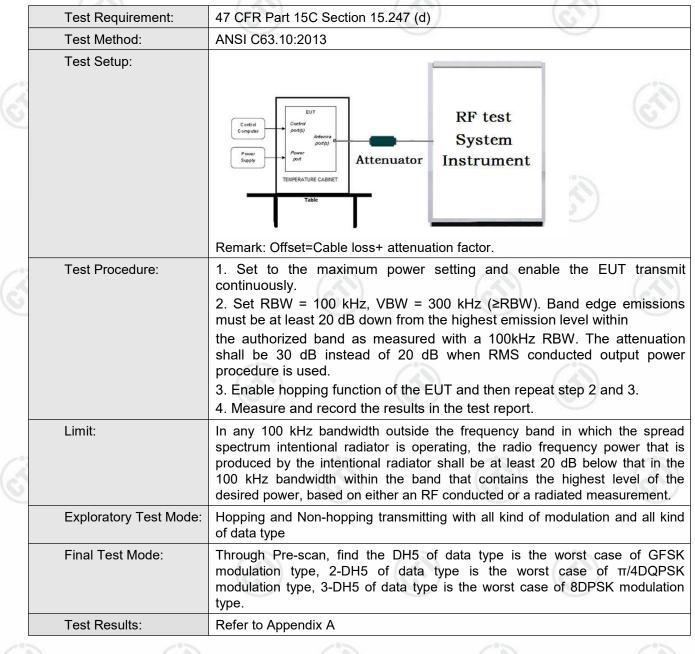








5.7 **Band edge Measurements**



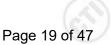


Hotline:400-6788-333









5.8 Conducted Spurious Emissions

	Test Requirement:	47 CFR Part 15C Section 15.247 (d	
	Test Method:	ANSI C63.10:2013	
(N)	Test Setup:	Control Computer Power Supply Tel/Pewer Supply Tel/Pewer Tel/Pewer Table	RF test System Instrument
		Remark: Offset=Cable loss+ attenua	ation factor.
	Test Procedure:	 The RF output of EUT was concable and attenuator. The path loss measurement. Set to the maximum power continuously. Set RBW = 100 kHz, VBW = 300 harmonics / spurs must be at least level within the authorized band as referenced. 	nected to the spectrum analyzer by RF was compensated to the results for each setting and enable the EUT transmit 0kHz, scan up through 10th harmonic. All t 20 dB down from the highest emission measured with a 100kHz RBW.
Ś	Limit:	spectrum intentional radiator is ope produced by the intentional radiator 100 kHz bandwidth within the ban	the frequency band in which the spread erating, the radio frequency power that is shall be at least 20 dB below that in the d that contains the highest level of the er an RF conducted or a radiated
	Exploratory Test Mode:	Non-hopping transmitting with all kir	nd of modulation and all kind of data type
	Final Test Mode:	modulation type, 2-DH5 of data	of data type is the worst case of GFSK type is the worst case of $\pi/4DQPSK$ e is the worst case of 8DPSK modulation







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5.9 Pseudorandom Frequency Hopping Sequence

Test Requirement:

47 CFR Part 15C Section 15.247 (a)(1), (h) requirement:

The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

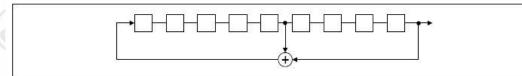
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

Compliance for section 15.247(a)(1)

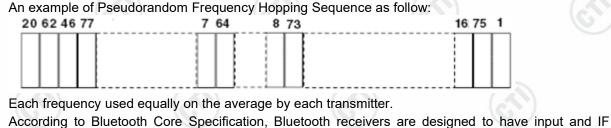
According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a ninestage shift register whose 5th and 9th stage

outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 29 -1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence









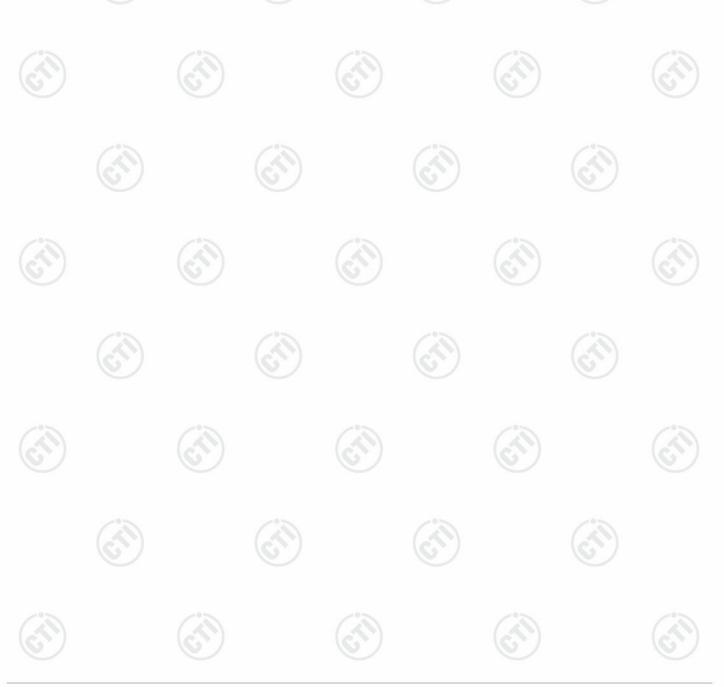
Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.









5.10 Radiated Spurious Emission & Restricted bands

	Test Requirement:	47 CFR Part 15C Secti	on 1	5.209 and 15	.205		
	Test Requirement: Test Method: Test Site: Receiver Setup:	ANSI C63.10: 2013		\smile		\sim	
	Test Site:	Measurement Distance	e: 3m	n (Semi-Anech	noic Cham	ber)	
3	Receiver Setup:	Frequency		Detector	RBW	VBW	Remark
		0.009MHz-0.090MH	lz	Peak	10kHz	30kHz	Peak
-		0.009MHz-0.090MH	z	Average	10kHz	30kHz	Average
		0.090MHz-0.110MH	lz	Quasi-peak	10kHz	2 30kHz	Quasi-peak
		0.110MHz-0.490MHz		Peak	10kHz	2 30kHz	Peak
		0.110MHz-0.490MH	z	Average	10kHz	30kHz	Average
		0.490MHz -30MHz		Quasi-peak	10kHz	2 30kHz	Quasi-peak
		30MHz-1GHz		Peak	100 kH	z 300kHz	Peak
		Above 1GHz		Peak	1MHz	3MHz	Peak
				Peak	1MHz	10kHz	Average
-	Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measuremen distance (m)
		0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300
		0.490MHz-1.705MHz	24000/F(kHz)		-	-/3	30
		1.705MHz-30MHz	5MHz-30MHz 30		-	0	30
		30MHz-88MHz		100	40.0	Quasi-peak	3
		88MHz-216MHz		150	43.5	Quasi-peak	3
2		216MHz-960MHz	2	200	46.0	Quasi-peak	3
8		960MHz-1GHz) 	500	54.0	Quasi-peak	3
-		Above 1GHz	Above 1GHz 500		54.0	Average	3
		Note: 15.35(b), Unless emissions is 20df applicable to the peak emission lev	3 ab equi	ove the maxin pment under t	num permi est. This p	tted average	emission limit

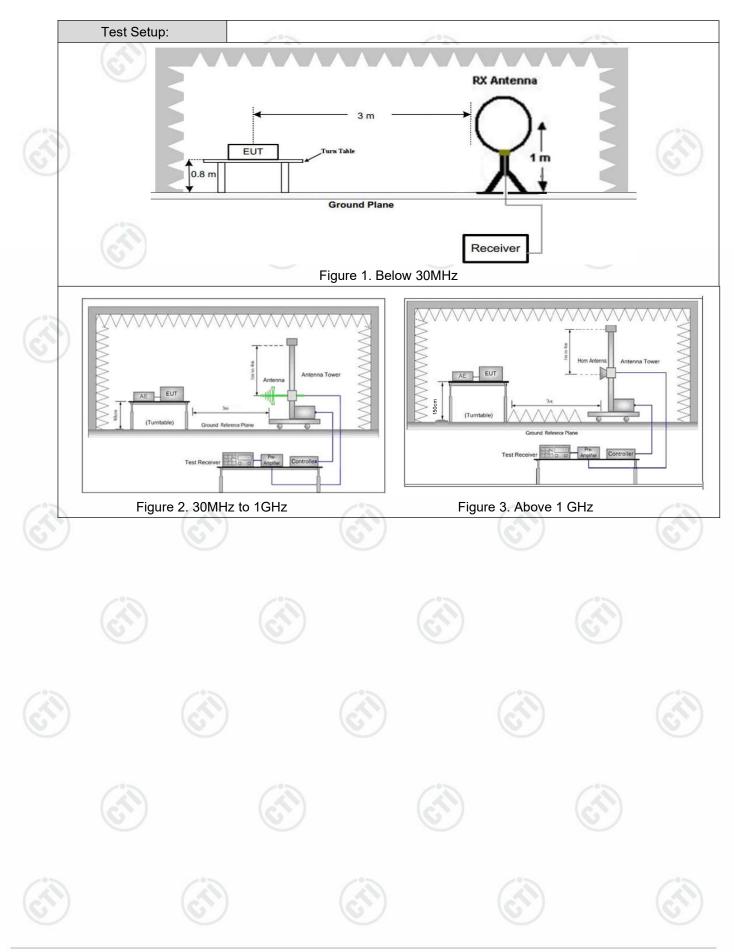








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Test Procedure:	a. 1) Below 1G: The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest
ŝ	 radiation. 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. Note: For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization
	 oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna
	 tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	 e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning
	for Transmitting mode, and found the X axis positioning which it is the worst case.
Exploratory Test Mode:	i. Repeat above procedures until all frequencies measured was complete. Non-hopping transmitting mode with all kind of modulation and all kind of
Final Test Mode:	data type Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Transmitting mode, For below 1GHz part, through pre- scan, the worst case is the lowest channel.
Test Results:	Only the worst case is recorded in the report. Pass
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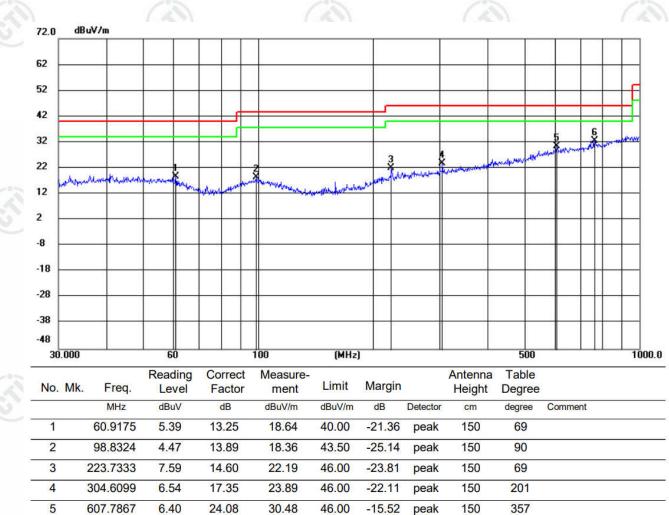




Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of DH5 for GFSK was recorded in the report.







6

*

763.3757



6.88



25.78

32.66

46.00



-13.34

peak



4

150

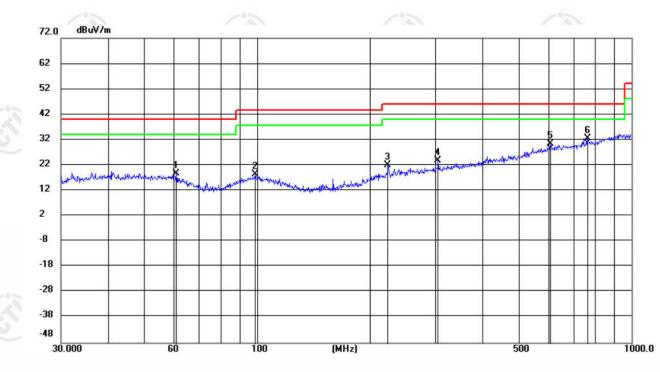


Hotline:400-6788-333

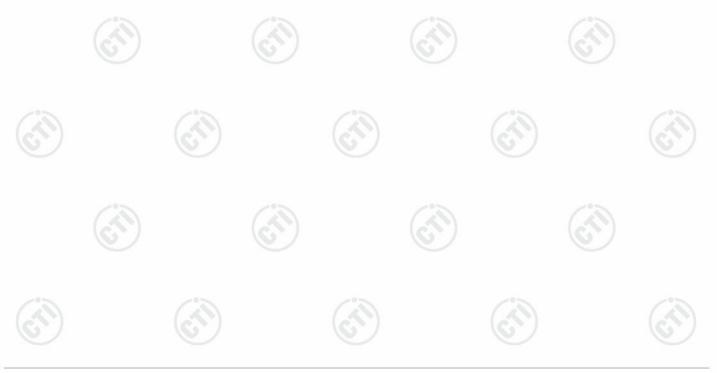








No. N	1k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	60.9175	5.39	13.25	18.64	40.00	-21.36	peak	150	69	
2	98.8324	4.47	13.89	18.36	43.50	-25.14	peak	150	90	
3	223.7333	7.59	14.60	22.19	46.00	-23.81	peak	150	69	
4	304.6099	6.54	17.35	23.89	46.00	-22.11	peak	150	201	
5	607.7867	6.40	24.08	30.48	46.00	-15.52	peak	150	357	
6 *	763.3757	6.88	25.78	32.66	46.00	-13.34	peak	150	4	









Radiated Spurious Emission above 1GHz:

Mode	e:	GI	SK Transmit	tting		Channel:		2402 MHz	2
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1210.2210	0.83	40.77	41.60	74.00	32.40	Pass	н	PK
2	1759.2759	3.14	39.95	43.09	74.00	30.91	Pass	н	PK
3	3991.0661	-18.91	56.94	38.03	74.00	35.97	Pass	н	PK
4	4804.1203	-16.23	56.74	40.51	74.00	33.49	Pass	н	PK
5	7686.3124	-11.06	55.52	44.46	74.00	29.54	Pass	н	PK
6	10285.4857	-6.56	50.88	44.32	74.00	29.68	Pass	Н	PK
7	1352.0352	1.23	41.00	42.23	74.00	31.77	Pass	V	PK
8	2127.9128	4.58	42.63	47.21	74.00	26.79	Pass	V	PK
9	3993.0662	-18.90	62.55	43.65	74.00	30.35	Pass	V	PK
10	4804.1203	-16.23	59.10	42.87	74.00	31.13	Pass	V	PK
11	7106.2738	-11.60	52.26	40.66	74.00	33.34	Pass	V	PK
12	10222.4815	-6.98	50.62	43.64	74.00	30.36	Pass	V	PK

Mode	e:		GFSK Transmit	tting		Channel:		2441 MHz	<u>z</u>
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1164.0164	0.82	40.76	41.58	74.00	32.42	Pass	н	PK
2	1979.4980	4.44	39.79	44.23	74.00	29.77	Pass	н	PK
3	4882.1255	-16.21	62.33	46.12	74.00	27.88	Pass	н	PK
4	7093.2729	-11.60	55.16	43.56	74.00	30.44	Pass	н	PK
5	9892.4595	-7.09	50.34	43.25	74.00	30.75	Pass	н	PK
6	12641.6428	-4.44	50.73	46.29	74.00	27.71	Pass	н	PK
7	1535.8536	1.76	39.57	41.33	74.00	32.67	Pass	V	PK
8	2127.5128	4.58	44.42	49.00	74.00	25.00	Pass	V	PK
9	4882.1255	-16.21	62.37	46.16	74.00	27.84	Pass	V	PK
10	7613.3076	-11.20	52.20	41.00	74.00	33.00	Pass	V	PK
11	10258.4839	-6.74	50.87	44.13	74.00	29.87	Pass	V	PK
12	12586.6391	-4.21	50.88	46.67	74.00	27.33	Pass	V	PK







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	Mode	:	GI	SK Transmit	ting		Channel:		2480 MHz	2
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1444.8445	1.43	40.35	41.78	74.00	32.22	Pass	Н	PK
1	2	2129.7130	4.56	43.59	48.15	74.00	25.85	Pass	Н	PK
ć	3	4960.1307	-15.97	57.61	41.64	74.00	32.36	Pass	Н	PK
6	4	5818.1879	-13.58	66.89	53.31	74.00	20.69	Pass	Н	PK
	5	8252.3502	-10.97	51.60	40.63	74.00	33.37	Pass	Н	PK
	6	12537.6358	-4.56	51.26	46.70	74.00	27.30	Pass	Н	PK
	7	1250.6251	0.93	41.58	42.51	74.00	31.49	Pass	V	PK
	8	2128.1128	4.57	45.19	49.76	74.00	24.24	Pass	V	PK
	9	3991.0661	-18.91	65.55	46.64	74.00	27.36	Pass	V	PK
	10	4960.1307	-15.97	58.81	42.84	74.00	31.16	Pass	V	PK
	11	8526.3684	-10.50	54.84	44.34	74.00	29.66	Pass	V	PK
	12	11883.5922	-5.88	51.89	46.01	74.00	27.99	Pass	V	PK
C			$\langle \mathcal{O} \rangle$		67		6)		67)

N	lode:	:	π/	4DQPSK Tra	nsmitting		Channel:		2402 MHz	2
М	10	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1281.6282	1.01	40.44	41.45	74.00	32.55	Pass	Н	PK
	2	2130.5131	4.55	42.98	47.53	74.00	26.47	Pass	Н	PK
	3	4804.1203	-16.23	57.05	40.82	74.00	33.18	Pass	Н	PK
1	4	6811.2541	-12.34	52.29	39.95	74.00	34.05	Pass	Н	PK
	5	9205.4137	-7.88	51.20	43.32	74.00	30.68	Pass	Н	PK
2	6	12552.6368	-4.45	51.29	46.84	74.00	27.16	Pass	Н	PK
	7	1178.8179	0.81	40.99	41.80	74.00	32.20	Pass	V	PK
	8	2132.9133	4.52	43.07	47.59	74.00	26.41	Pass	V	PK
	9	4252.0835	-17.61	59.32	41.71	74.00	32.29	Pass	V	PK
-	10	5321.1547	-14.75	57.98	43.23	74.00	30.77	Pass	V	PK
	11	8799.3866	-9.46	52.48	43.02	74.00	30.98	Pass	V	PK
-	12	11296.5531	-6.62	51.58	44.96	74.00	29.04	Pass	V	PK











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Mode	:	π/	4DQPSK Tra	nsmitting		Channel:		2441 MHz	<u>:</u>
NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	1297.0297	1.05	41.13	42.18	74.00	31.82	Pass	Н	PK
2	2129.7130	4.56	42.79	47.35	74.00	26.65	Pass	Н	PK
3	4882.1255	-16.21	56.88	40.67	74.00	33.33	Pass	Н	PK
4	7397.2932	-11.51	52.42	40.91	74.00	33.09	Pass	Н	PK
5	9217.4145	-7.89	51.03	43.14	74.00	30.86	Pass	Н	PK
6	13333.6889	-3.23	50.09	46.86	74.00	27.14	Pass	Н	PK
7	1381.0381	1.33	40.45	41.78	74.00	32.22	Pass	V	PK
8	2128.3128	4.57	44.13	48.70	74.00	25.30	Pass	V	PK
9	4882.1255	-16.21	58.87	42.66	74.00	31.34	Pass	V	PK
10	7093.2729	-11.60	56.28	44.68	74.00	29.32	Pass	V	PK
11	9877.4585	-7.14	50.43	43.29	74.00	30.71	Pass	V	PK
12	12377.6252	-4.92	50.81	45.89	74.00	28.11	Pass	V	PK
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	Mode	:		π/4DQPSK Tra	nsmitting		Channel:		2480 MHz	2
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1236.0236	0.89	42.23	43.12	74.00	30.88	Pass	н	PK
	2	2130.1130	4.55	41.69	46.24	74.00	27.76	Pass	Н	PK
	3	4960.1307	-15.97	56.57	40.60	74.00	33.40	Pass	Н	PK
1	4	6960.2640	-11.82	55.52	43.70	74.00	30.30	Pass	Н	PK
	5	10358.4906	-6.35	50.09	43.74	74.00	30.26	Pass	Н	PK
2	6	12580.6387	-4.25	51.25	47.00	74.00	27.00	Pass	Н	PK
	7	1279.2279	1.01	41.28	42.29	74.00	31.71	Pass	V	PK
	8	2131.9132	4.53	42.23	46.76	74.00	27.24	Pass	V	PK
	9	4257.0838	-17.57	67.01	49.44	74.00	24.56	Pass	V	PK
	10	5308.1539	-14.79	57.28	42.49	74.00	31.51	Pass	V	PK
	11	7389.2926	-11.53	53.32	41.79	74.00	32.21	Pass	V	PK
	12	11346.5564	-6.40	51.25	44.85	74.00	29.15	Pass	V	PK

















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	Mode	:	8	DPSK Transm	itting		Channel:		2402 MHz	:
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1351.8352	1.23	40.55	41.78	74.00	32.22	Pass	Н	PK
13	2	1923.2923	4.15	39.24	43.39	74.00	30.61	Pass	Н	PK
6	3	4804.1203	-16.23	58.65	42.42	74.00	31.58	Pass	Н	PK
(V	4	7401.2934	-11.50	52.41	40.91	74.00	33.09	Pass	Н	PK
	5	9358.4239	-7.97	51.62	43.65	74.00	30.35	Pass	Н	PK
	6	12032.6022	-5.45	51.91	46.46	74.00	27.54	Pass	Н	PK
	7	1265.6266	0.97	40.94	41.91	74.00	32.09	Pass	V	PK
	8	2124.3124	4.61	43.84	48.45	74.00	25.55	Pass	V	PK
	9	4252.0835	-17.61	58.91	41.30	74.00	32.70	Pass	V	PK
	10	6864.2576	-12.04	52.88	40.84	74.00	33.16	Pass	V	PK
	11	9226.4151	-7.90	51.41	43.51	74.00	30.49	Pass	V	PK
(à	12	12028.6019	-5.42	51.54	46.12	74.00	27.88	Pass	V	PK
G	7		6)		G)	6)		$\langle \mathcal{O} \rangle$

	Mode	:		8DPSK Transm	itting		Channel:		2441 MHz	<u>:</u>
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1353.0353	1.24	40.41	41.65	74.00	32.35	Pass	Н	PK
	2	2003.9004	4.56	39.45	44.01	74.00	29.99	Pass	Н	PK
	3	4259.0839	-17.55	59.89	42.34	74.00	31.66	Pass	Н	PK
-	4	7040.2694	-11.72	54.49	42.77	74.00	31.23	Pass	Н	PK
	5	10431.4954	-6.35	49.90	43.55	74.00	30.45	Pass	Н	PK
4	6	13892.7262	-1.95	49.50	47.55	74.00	26.45	Pass	Н	PK
	7	1309.2309	1.09	40.76	41.85	74.00	32.15	Pass	V	PK
	8	2127.1127	4.58	45.04	49.62	74.00	24.38	Pass	V	PK
	9	4264.0843	-17.51	64.25	46.74	74.00	27.26	Pass	V	PK
	10	6661.2441	-12.62	. 52.48	39.86	74.00	34.14	Pass	V	PK
	11	9264.4176	-7.93	51.16	43.23	74.00	30.77	Pass	V	PK
	12	13811.7208	-1.67	49.01	47.34	74.00	26.66	Pass	V	PK













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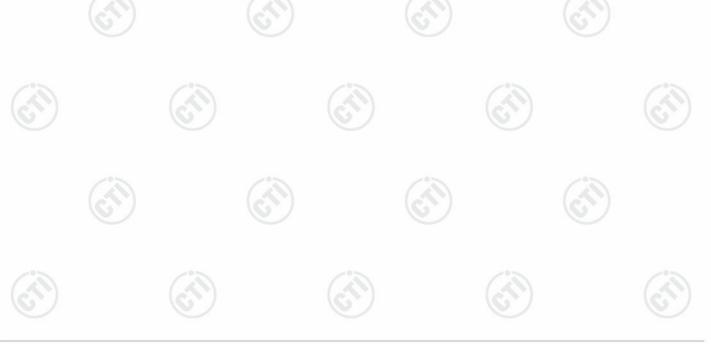


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	Mode	:		8DPSK Trans	mitting		Channel:		2480 MHz	2
	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	1302.4302	1.07	40.56	41.63	74.00	32.37	Pass	Н	PK
10	2	2011.5012	4.59	39.57	44.16	74.00	29.84	Pass	Н	PK
1	3	4657.1105	-16.63	54.88	38.25	74.00	35.75	Pass	Н	PK
Ľ	4	6792.2528	-12.42	2 52.90	40.48	74.00	33.52	Pass	Н	PK
	5	9178.4119	-8.05	50.61	42.56	74.00	31.44	Pass	Н	PK
	6	12000.6000	-5.25	51.55	46.30	74.00	27.70	Pass	Н	PK
	7	1238.6239	0.90	41.37	42.27	74.00	31.73	Pass	V	PK
	8	2125.1125	4.61	45.58	50.19	74.00	23.81	Pass	V	PK
	9	5196.1464	-14.54	72.13	57.59	74.00	16.41	Pass	V	PK
	10	5198.1465	-14.51	58.79	44.28	54.00	9.72	Pass	V	AV
	11	6933.2622	-11.83	55.36	43.53	74.00	30.47	Pass	V	PK
1	12	10790.5194	-6.25	51.40	45.15	74.00	28.85	Pass	V	PK
5	13	13855.7237	-1.82	48.85	47.03	74.00	26.97	Pass	V	PK

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.





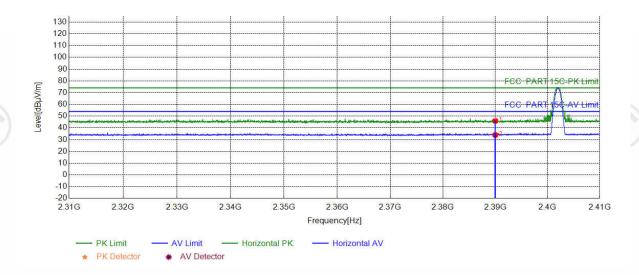


Restricted bands:



Mode:	GFSK Transmitting	Channel:	2402	6
Remark:		e		N.

Test Graph



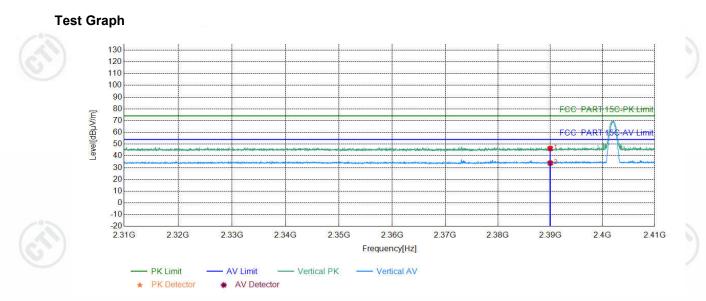
10	Suspe	ected List					_			
Ć	NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
	1	2390.0000	5.77	40.13	45.90	74.00	28.10	PASS	Horizontal	PK
	2	2390.0000	5.77	28.20	33.97	54.00	20.03	PASS	Horizontal	AV
					· · · · · · · · · · · · · · · · · · ·		1		(2)	











NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	40.53	46.30	74.00	27.70	PASS	Vertical	PK
2	2390.0000	5.77	28.14	33.91	54.00	20.09	PASS	Vertical	AV













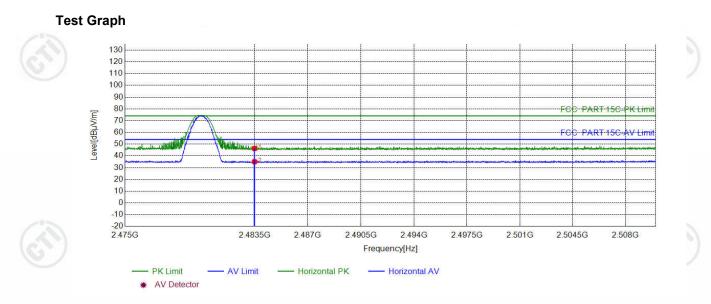












NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.73	46.30	74.00	27.70	PASS	Horizontal	PK
2	2483.5000	6.57	28.49	35.06	54.00	18.94	PASS	Horizontal	AV
	2400.0000	0.07	20.49	00.00	1 04.00	10.94	1 700		









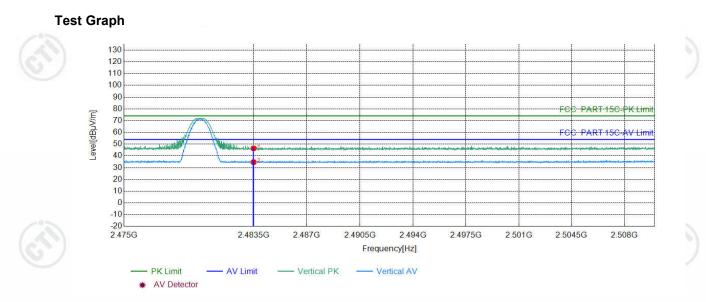












NO	Freq. [MHz]	[dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.87	46.44	74.00	27.56	PASS	Vertical	PK
2	2483.5000	6.57	28.13	34.70	54.00	19.30	PASS	Vertical	AV









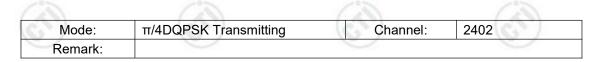


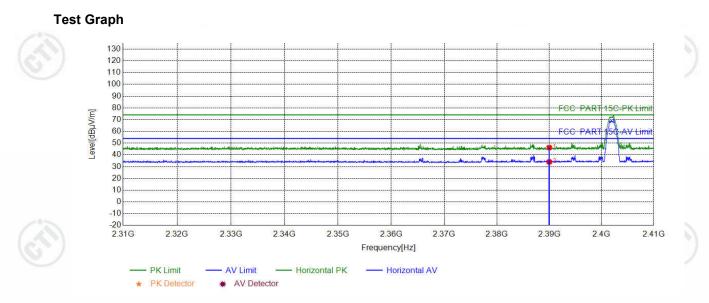












	[MHz]	[dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1 2	2390.0000	5.77	40.45	46.22	74.00	27.78	PASS	Horizontal	PK
2 2	2390.0000	5.77	28.32	34.09	54.00	19.91	PASS	Horizontal	AV











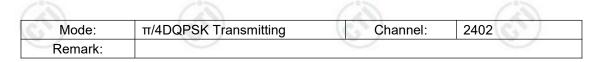


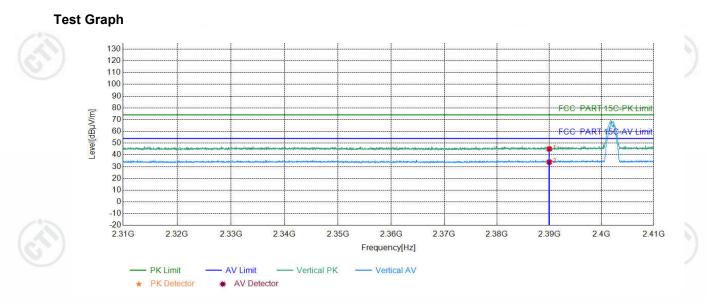












NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.37	45.14	74.00	28.86	PASS	Vertical	PK
2	2390.0000	5.77	28.11	33.88	54.00	20.12	PASS	Vertical	AV











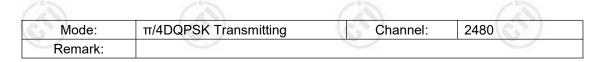


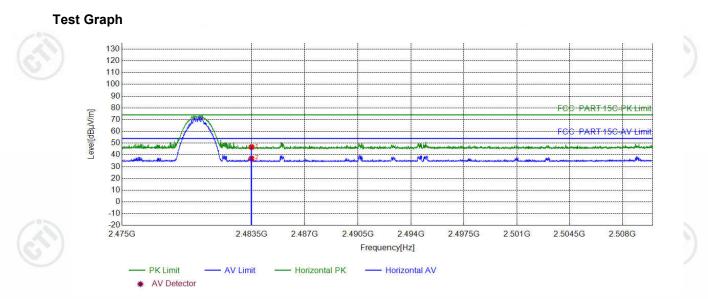












NO	Freq. [MHz]	[dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.07	46.64	74.00	27.36	PASS	Horizontal	PK
2	2483.5000	6.57	30.28	36.85	54.00	17.15	PASS	Horizontal	AV









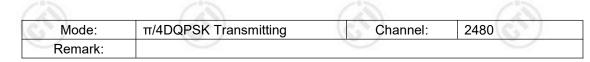


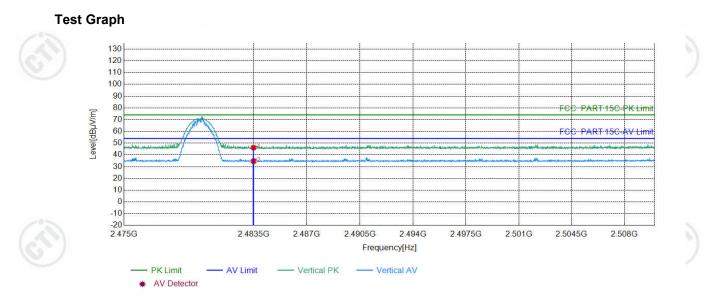












NO	Freq. [MHz]	[dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	39.60	46.17	74.00	27.83	PASS	Vertical	PK
2	2483.5000	6.57	28.09	34.66	54.00	19.34	PASS	Vertical	AV













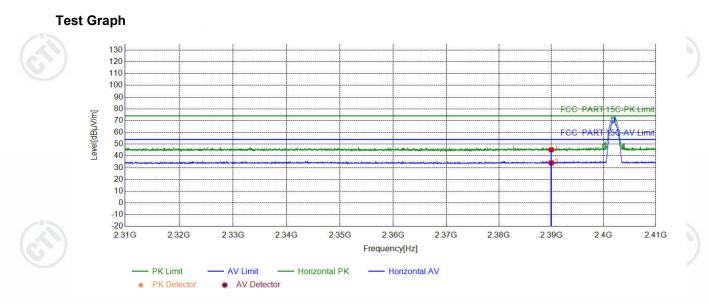












1 2390.0000 5.77	00.45						
	39.45	45.22	74.00	28.78	PASS	Horizontal	PK
2 2390.0000 5.77	28.29	34.06	54.00	19.94	PASS	Horizontal	AV









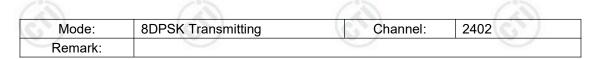


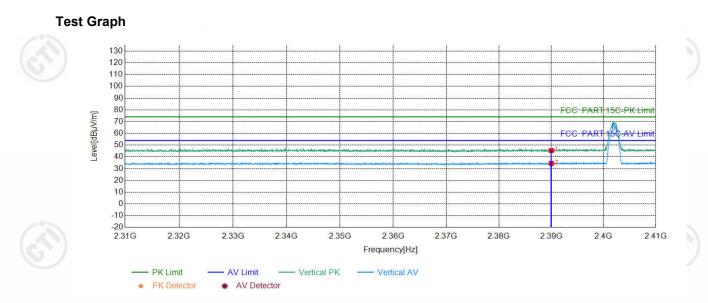












NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2390.0000	5.77	39.62	45.39	74.00	28.61	PASS	Vertical	PK
2	2390.0000	5.77	28.71	34.48	54.00	19.52	PASS	Vertical	AV















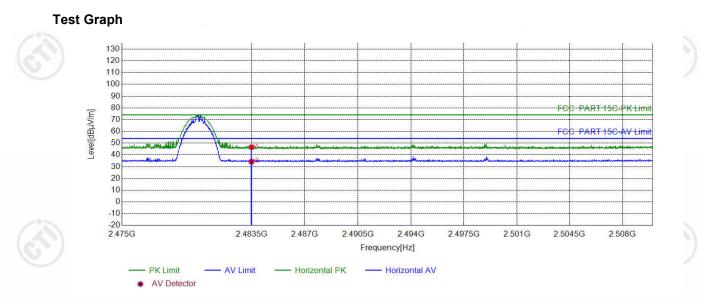






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NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	40.03	46.60	74.00	27.40	PASS	Horizontal	PK
2	2483.5000	6.57	27.72	34.29	54.00	19.71	PASS	Horizontal	AV
)	1	(\sim)	1	(2)		(c	$\langle \rangle$	1	(\mathcal{A})











Hotline:400-6788-333





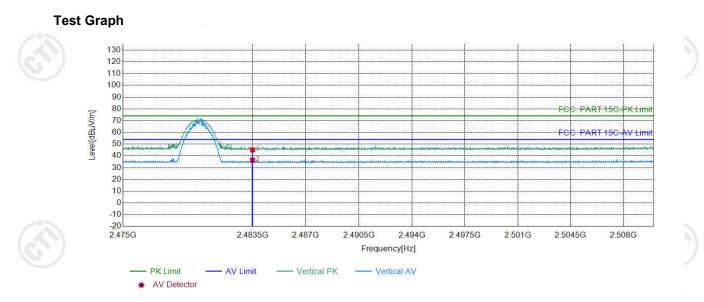






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NO	Freq. [MHz]	Factor [dB]	Reading [dBµV]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Result	Polarity	Remark
1	2483.5000	6.57	38.62	45.19	74.00	28.81	PASS	Vertical	PK
2	2483.5000	6.57	29.87	36.44	54.00	17.56	PASS	Vertical	AV

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor-Antenna Factor-Cable Factor





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6 Appendix A

Refer to Appendix: Bluetooth BR/EDR of EED32O81002002





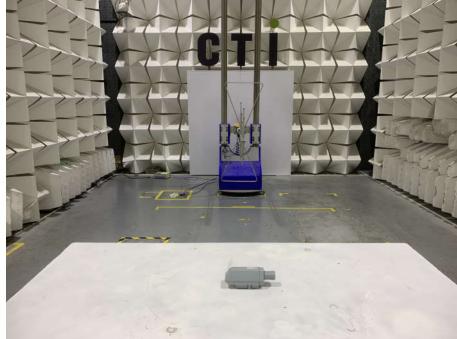




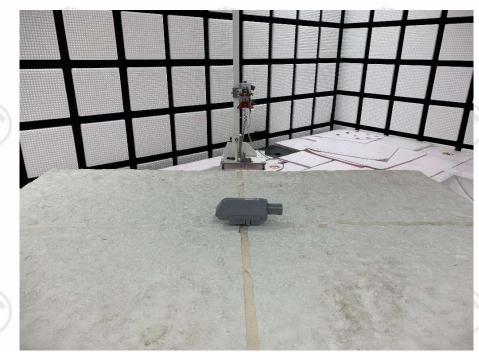
7 PHOTOGRAPHS OF TEST SETUP



Test model No.: S2101



Radiated spurious emission Test Setup-1(Below 1GHz)

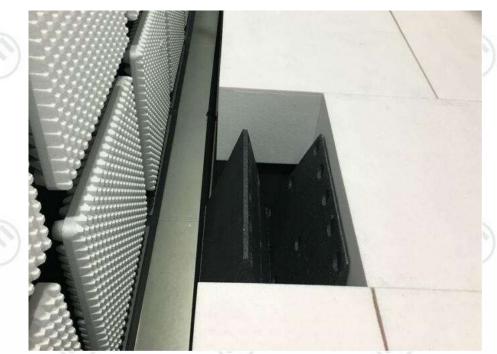


Radiated spurious emission Test Setup-2(Above 1GHz)

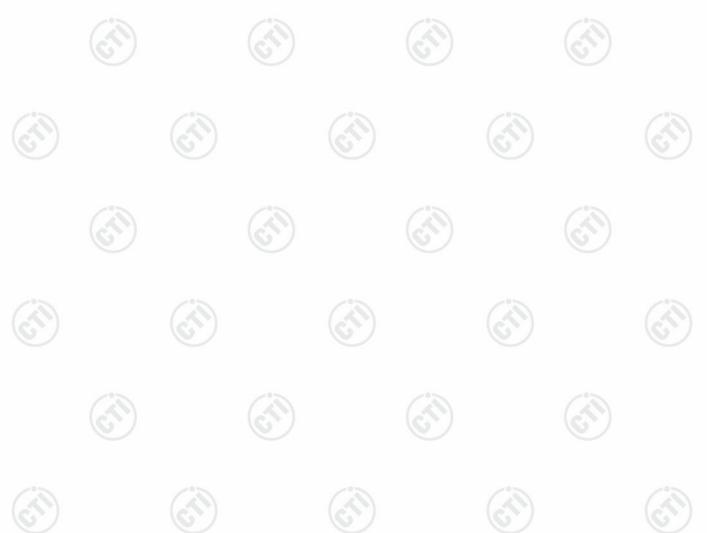




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Radiated spurious emission Test Setup-3(Above 1GHz) There are absorbing materials under the ground.







8 PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No.EED32O81002001 for EUT external and internal photos.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

